Publications





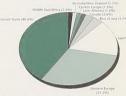
HIGHLIGHTS

The Canadian environment industry is composed of firms involved in two broad types of activities: provision of environmental services and production of environmental products. Firms in this industry provide a wide range of pollution prevention and environmental conservation, remediation and enhancement technologies. processes, products and services.

- The world environment industry is evolving. developing new markets and searching for new
- Although estimates vary, one research group (The Delphi Group) puts the value of the global environmental market by the turn of the
- In 1994, Canada accounted for an estimated represent approximately 80 percent of the world market. Developing countries, however, are

becoming an increasingly important source of demand as their industrial sectors come

Global Environmental Market, 1994



The Canadian environment sector consists primarily of small enterprises . . .

Preliminary data from Statistics Canada indicate that 123 000 workers produced at \$15.6 billion in 1995. The business sector and employment of 58 250 workers. The

Supply by Industry and Sector, 1995

	Basiness sales	gesteen ove weenst	Government	Constraint Constraint production	tepore	Total supply
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At pollution costesi	145			145	564	3 500
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Siddware	328			1,525	15	39
Other greats				255	156	40
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Services:	3300			100		310
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tes				15 550	1100	

- The Canadian environment industry consists of some 4 000 firms ranging from one-person operations to large, multinational corporations. people. Approximately two thirds of the firms provide environmental services, the remaining third are manufacturers of a broad range of
- Important subsectors of the industry include



Total Domestic Production, 1995

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	Products	mil Se	rvices		niction	

Canadian firms have gained international recognition for their expertise in developing water and wastewater treatment technologies. environmental equipment such as shredders, as

The Canadian environment industry is in transition . . .

Those segments of the industry that are of rationalization and consolidation. Many small firms are being taken over or merged to form larger entities benef able to compete

The forces driving the demand for environmental products are also undergoing change . . .

Governments are shifting their focus

1	rom politition management to politition
F	prevention. At the same time, governments are
S	supplementing regulation with negotiations to
S	secure voluntary agreements from industry to
I	imit releases of toxics and eliminate polluting
1	activities. There is an increasing emphasis on
1	re-engineering industrial processes to reduce
t	the amount of pollution produced at source,
1	rather than at the end-of-pipe. These cleaner
1	production technologies and services, which
6	enable firms to improve their resource use
Ę	efficiency while eliminating the production
100	and release of toxics, are critical to sustainable
	development

■ Increasing pressure on industry to demonstrate its commitment to sustainable development presents challenges for industry and growth industry. On December 10, 1997, Industry (http://strategis.ic.gc.ca/sd) in the House



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Aussi disponible en français sous le titre :

Sector Competitiveness Frameworks are a new series of documents produced by Industry stakeholders. Each framework will examine a major Canadian industry sector, and will be both domestic and international, as well as on the challenges facing industry sectors in Canada. Part 2 - Framework for Action will be based on discussions with major industrial stakeholders, following study and review of the Overview

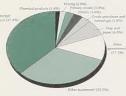
The objective of the Sector Competitiveness Frameworks series is to seek ways in which government and private industry together can strengthen Canada's competitiveness and,

In all, some 30 industrial sectors will be analyzed.

Electronic copies of documents in the series are available on the Internet at the following address: of Commons. On this same date in Kyoto, Japan, the Kyoto Protocol (http://www.unfccc.de) was adopted by the Conference of Parties to the United Nations Framework Convention on Climate Change (1992). Under the Kyoto greenhouse gas emissions to 6 percent below its 1990 levels by the commitment period from 2008 to 2012.

- With the increased global focus on climate change and the impacts of fossil fuel use, there that reduce energy use and/or facilitate use of less carbon-intensive sources of energy.
- There is increasing interest by municipalities in transferring environmental activities to the private sector. Public-private partnerships have already been used for the development and operation of some local environmental infrastructure. Canadian firms, however, have some challenges to overcome in competing for this business.

Canadian Environmental Market, 1995



While there are areas of strong demand within the domestic markets, export markets hold the best opportunities for the longterm growth of the industry . . .

■ The United States is Canada's major export market. Since the implementation of the North American Free Trade Agreement (NAFTA) in 1994, Mexico has also become an important market for Canadian environmental products. to take advantage of export opportunities. In developing regions such as Latin America and parts of Asia and Africa, where countries are striving to establish an infrastructure to address basic pollution and waste problems, demand growing rapidly.

many of the basic product and service delivery needs of developing economies. The Canadian

Canadian firms are well positioned to satisfy

industry may also be able to participate in

major infrastructure developments, if firms

can successfully partner with others, including

foreign producers, and acquire the critical mass

and resources necessary to compete effectively

■ The following major challenges need to be

addressed by industry and government working

Canadian environmental firms should explore

the possibilities for using their competitive

strengths to further develop specialty or niche

products, services and technologies. They also

need to examine partnering arrangements with

other companies, including foreign firms, that

in these lucrative markets.

THE BOTTOM LINE

Trade

The industry requires significant investment to develop and commercialize new technologies and thereby strengthen its competitiveness. Technology development and commercialization have been impeded by a shortage of seed money and venture capital.

Investment/Financina

■ Through alliances and partnerships, companies could share the risks and the costs of new technology development and acquisition.

Research and Development

Industry-funded R&D is lower in Canada than in most member countries of the OECD. While this can be partly attributed to the limited resources of the small and medium-sized enterprises (SMEs) that characterize the environment industry. Canadian firms may fall behind technologically if they do not improve on their R&D investment and performance. A related concern arises from evidence indicating a relatively slow adoption of new technologies by Canadian firms. There is a need to look at how Canada can close the R&D innovation/adoption gap with its key competitors.

Human Resources

- The development of an adequate base of qualified workers is a key challenge. Available evidence points to a shortage of technicians qualified and certified to work in the with colleges and universities to address this problem, and also to ensure that continuing education courses provide existing workers with an adequate opportunity to upgrade their skills.
- By addressing the above challenges, capitalizing on its competitive advantages and strategically responding to emerging opportunities, the Canadian environment industry can more effectively position itself to benefit from the strong growth in the global demand for environmental technologies, products and services.

For further information concerning the subject matter contained in these Highlights, please

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